Summary of Ammonia Alternatives Atwater WWTF

Merced County

PERMIT REQUIREMENTS	Alternative #1 (Seasonal Limits Set As Criteria)		Alternative #2 (Floating Limits)
Final effluent limitations:	Summer (April 1 to October 31) 16.3 mg/L (1-hour average)	Winter (November 1 to March 31) 18.5 mg/L (1-hour average)	Limits "float" based on the pH and temperature in the
(Ammonia, Total as N)	5.0 mg/L (4-day average) 2.0 mg/L (monthly average)	5 (5)	Atwater Drain at the time of discharge (i.e., 1-hour, 4-day, 30-day)
Acute criteria basis:	1/10th percentile of calculated acute criteria using 9 years of pH data from the Atwater Drain at R-2 (process is described in TWDRs)		pH conditions in the Atwater Drain at R-2 at the time of discharge
Chronic criteria basis:	1/10th percentile of calculated chronic criteria using 9 years of pH and temperature data from the Atwater Drain at R-2 (process is described in TWDRs)		pH and temperature conditions in the Atwater Drain at R-2 at the time of discharge
5-year compliance schedule?	Yes (for 30-day average and 4-day average)		Yes (for 30-day average and 4-day average)
Effluent sampling frequency:	Daily grab		4 grabs per day
Receiving water sampling frequency:	Weekly grab at R-1 and R-2		4 grabs per day at R-2, Weekly grab at R-1
Special:	Requires special study of pH and temperature of the Atwater Drain. Requires restriction on maximum effluent pH (7.6)		Mid-afternoon
Interim effluent limitations: (Ammonia, Total as N)	Summer (April 1 to October 31) 16.3 mg/L (1-hour average)	Winter (November 1 to March 31) 18.5 mg/L (1-hour average)	Set as floating acute criteria